

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Evans et al.	§
	§ Group Art Unit: Not Assigned
Serial No.: Not Assigned	§
	§ Examiner: Not Assigned
Filed: October 9, 2003	§
	§ Attorney Docket No.: BPHOTO.012
For: Multi-Wavelength Grating-	§
Outcoupled Surface Emitting Laser	§
System	§

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicants request that the information listed on the attached Form PTO-1449 be considered by the Office during the pendency of the above entitled application, pursuant to 37 C.F.R. 1.97.

Please charge any fees necessary for prosecution of the present application to Deposit Account No. 50-0392. If any extension of time is required, such extension is hereby requested. Please charge any additional required fee for extension of time to Deposit Account No. 50-0392.

In accordance with 37 C.F.R. 1.97(h), the filing of this Information Disclosure Statement shall not constitute an admission that any information cited therein is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56(b). In the interest of full and complete disclosure to the Office, some or all of the art cited herein may not be considered by Applicant(s) or the Undersigned to be material under the new standards of materiality defined in 37 C.F.R. 1.56(b), enacted March 16, 1992, but may be material under the old standard of materiality defined in 37 C.F.R. 1.56(a), last amended on November 28, 1988, or may merely be technical background which may be of interest to the Examiner. In accordance with 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97(b) within three months of the filing date of the application, or before the mailing date of a first office action on the merits. No fee is required.

Date: 10.9.03

Respectfully submitted,



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Form PTO-1449		ATTORNEY DOCKET NO. BPHOTO.012		SERIAL NO. Not Assigned	
LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>		APPLICANT Evans et al.			
		FILING DATE October 9, 2003		GROUP ART UNIT Not Assigned	
U.S. PATENT DOCUMENTS					
EXAMINER INITIAL	DOCUMENT NO.	PUBLICATION DATE	INVENTOR NAME	CLASS/ SUBCLASS	FILING DATE
AA	4,511,408	Apr. 16, 1985	Holonyak, Jr.	148/1.5	Apr. 22, 1982
AB	6,489,041 B2	Dec. 3, 2002	Tamura et al.	428/620	Dec. 8, 2000
AC	6,507,042 B1	Jan. 14, 2003	Mukai et al.	257/14	Dec. 22, 1999
AD	4,591,889	May 27, 1986	Gossard et al.	357/4	Sep. 14, 1984
AE	5,757,833	May 26, 1998	Arakawa et al.	372/45	Nov. 1, 1996
AF	5,673,284	Sep. 30, 1997	Congdon et al.	372/50	Aug. 21, 1996
AG	4,919,507	Apr. 24, 1990	Evans et al.	350/96.19	May 10, 1989
AH	4,006,432	Feb. 1, 1977	Streifer et al.	331/94.5 C	Oct. 15, 1974
AI	5,970,081	Oct. 19, 1999	Hirayama et al.	372/96	Sep. 17, 1997
AJ	4,958,357	Sep. 18, 1990	Kinoshita	372/96	Dec. 19, 1988
AK	6,064,783	May 16, 2000	Congdon et al.	385/15	May 25, 1994
OTHER PRIOR ART <i>(including author, title, date, pertinent page, etc.)</i>					
AL	"Surface Emitting Semiconductor Lasers and Arrays", Ed. Evans and Hammer, Academic Press, 1993.				
AM	"Facetless Bragg Reflector Surface-Emitting AlGaAs/GaAs Lasers Fabricated by Electron-Beam Lithography and Chemically Assisted Ion-Beam Etching", Tiberio, R.C., et al., J.Vac.Sci.Technol. B9 (6), Nov/Dec 1991.				
AN	"Laser Diode End Fire Coupling into Ti:LiNbO ₃ Waveguides", Burns, Appl. Optics, 18, 2536-2537, Aug. 1979.				
AO	"Research Toward Optical Fiber Transmission Systems Part 1, Miller et al., "Proc. IEEE, 61, 1703-1751, Dec. 1973.				
AP	"Optimized Couplers Between Junction Lasers and Single Mode Fibers", Hammer, Neil, RCA Laboratories, Princeton, NJ, Final Report, 31 August 1981 - 31 January 1983.				
AQ	"Observations and Theory of High Power Butt Coupling to LiNbO ₃ -type Waaveguides", Hammer and Neil, IEEE J. Quantum Electronics, QE-18, 1751-1758, Oct. 1982.				
AR	"Bow-Tie Surface Emitting Lasers", Bedford, R., Luo, H., Fallahi, M., IEEE Photonics Tech. Let., Vol. 12, No. 8, August 2000.				
AS	"Surface-Emitting Distributed Feedback Quantum-Cascade Lasers", Schrenk, W. et al., Applied Physics Letters, Vol. 77, No. 14, Oct. 2, 2000.				
AT	"Analysis of Grating Surface Emitting Lasers", Noll, R.J., Macomber, S.H., IEEE Journal of Quantum Electronics, Vol. 26, No. 3, March 1990.				
AU	Stoll, "Distributed Bragg Deflector: A Multifunctional Integrated Optical Device", Applied Optics, Vol. 17, No. 16, 15 August 1978, pp. 2562-2569.				
AV	Evans et al., "Progress Toward a Monolithically Integrated Coherent Diode Laser Array", The Aerospace Corp., El Segundo, CA 90245, Interim Report, 20 February 1981, 204 pages.				
DATE CONSIDERED			EXAMINER		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					